# MODEL ECM-60 OMNI DIRECTIONAL 1. SENSITIVITY (OdB=1V/μ bar,1KHz, VCC=4.5V, RL=1KΩ) A: -56±3dB B: -60±3dB C: -64±3dB D: -68±3dB

# 3. SPECIFICATIONS

E: -72±3dB

1. IMPEDANCE: LOW

2. STANDARD VOLTAGE: 4.5V

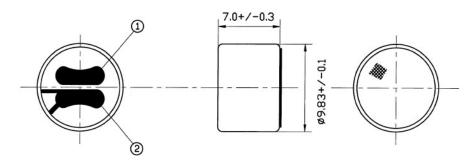
3. RANGE OF OPERATING VOLTAGE: 1.5V TO 10V

4. CURRENT DRAIN: 0.25mA MAX

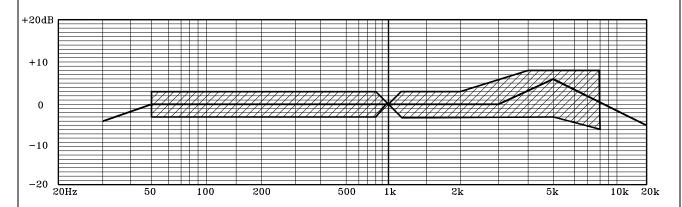
5. S/N RATIO: 40 dB or more

6. MAXIMUM INPUT SOUND PRESSURE: 120 dB SPL

# 4. DIMENSION



# 5. TYPICAL FREQUENCY RESPONSE CURVE



MAIN USAGE OF ECM UNITS: MICROPHONE, CASSETTETAPE RECORDER, SONIC CONTROLLED TOY, INTERCOM SYSTEM,

SONIC CONTROLLED SWITCH, TELEPHONE SET, DISCO LIGHT & ANSWERING

MACHINE, ETC.

# 6. RELIABILITY TEST TO BE NO INTERFERENCE IN OPERATION AFTER VIBRATION 12Hz TO **VIBRATION TEST** 50Hz FOR 1 MINUTE FULL AMPLITUDE, FOR 1.5 HOUR AT 3 AXISES. TO BE NO INTERFERENCE IN OPERATION AFTER DROPPED TO DROP TEST CONCERTET FLOOR EACH ONE TIME FROM 1 METER HEIGHT AT 3 DIRECTONS IN STATE OF PACKING. a) AFTER EXPOSURE AT 55° FOR 1 HOUR, SENSITIVITY TO BE WITHIN +/-3dB FROM INITIAL. **TEMPERATURE** b) AFTER EXPOSURE AT -10° FOR 1 HOUR, SENSITIVITY TO BE WITHIN **TEST** +/-3dB FROM INITIAL. (THE MEASUREMENT TO BE DONE AFTER 2 HOURS OF CONDITIONING AT 25°C.) AFTER EXPOSURE AT 40°C AND 95% RH FOR 48 HOURS, SENSITIVITY **HUMIDITY TEST** TO BE WITHIN +/-3dB FROM INITIAL. (AFTER 1 HOUR OF CONDITIONING AT 25°C.) AFTER EXPOSURE AT -10°C FOR 1HOUR, AT 25°C FOR 1 HOUR, AT 50°C **TEMPERATURE** FOR 1 HOUR, ATO 25°C FOR 2 HOURS, 4 CYCLES ,SENSITIVITY TO BE CYCLE TEST WITHIN +/-3dB. (AFTER 2 HOURS OF CONDITIONING AT 25°C)

### \*REGARDING THE SOLDERING OPERATION:

EACH CONDENSER MICROPHONE CONTAINS A FET WITHIN ITS CASE.

GENERALLY, OVER-HEATING, OVER-CHARGE OF VOLTAGE IS EASY TO DESTROY SEMICONDUCTORS.

- 1. USE 30W (OR UNDER) SOLDERING IRON AND MAINTAIN 230°~260°C IN OPERATION.
- 2. SOLDERING SHOULD BE ACCOMPLISHED WITHIN TWO SECONDS AT EACH TERMINAL SO AS NOT TO BE OVERHEATED.
- 3. DO NOT MAKE A CAVITY AT THE SERFACE OF LEAD ON THE PATTERN PLATE. (A CAVITY MAY CHANGE THE CHARACTERISTICE OF CONDENSER MICROPHONE.)



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